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After this the Clouds thickened, and covered the Moon till the End of the Eclipse, which was about $8^h, 30'$, as near as I could guess through the Clouds.

The Night before the Eclipse, *viz.* 20 *December*, at $12^h, 14'$, I saw the Moon eclipse a Fixed Star, which, I think, is in the Heel of *Castor*.

These Two last Observations were made with an Eight Foot Telescope, my Watch being rectified to the apparent Time by correspondent Altitudes of the Sun, taken with the before-mentioned Quadrant for several Days together, before and after the Eclipse.

I must ask your Pardon for this long Trouble, and am,

S I R,

Cambridge in New-
England, Dec. 30.
1740.

Your most humble Servant,

John Winthrop.

III. *An Account of the Transit of Mercury over the Sun, Oct. 25. 1743. in the Morning, observed at Mr. Geo. Graham's House in Fleetstreet.*

Read Nov. 3. 1743. THE Beginning could not be seen by reason of Clouds, but about $8^h, 45'$, *Mercury* was seen (through a reflecting Telescope Three Foot *Focus*, magnifying about 50 times) about Four or Five of his Diameters within the Sun's Limb.

At Mr. *Short's* House in *Surrey-street*, *Mercury* was seen just past the interior Contact $8^h, 30', 59''$,
through

through a reflecting Telescope Two Foot *Focus*, magnifying about 70 times; the Person who observed it says, that the Thread of Light between *Mercury* and the Sun's Limb was so small, as scarcely to amount to the 20th or 30th Part of *Mercury's* Diameter.

The following Differences of Right Ascension between the Sun's preceding Limb and Mercury, were taken at Mr. Short's House.

| | | | | |
|---|---|-----|-----|-----|
| Sun's preceding Limb touched the | } | h. | ' | " |
| Wire at | | 10. | 58. | 55. |
| <i>Mercury</i> touched the same Wire at | | 10. | 59. | 40. |

| | | | | |
|---|---|-----|-----|-----|
| Sun's preceding Limb touched the | } | | | |
| Wire at | | 11. | 48. | 4. |
| <i>Mercury</i> touched the same Wire at . | | 11. | 48. | 32. |
| Sun's subsequent Limb touched the | } | | | |
| same Wire at | | 11. | 50. | 20. |

| | | | | |
|---|---|-----|-----|-----|
| Sun's preceding Limb touched the | } | | | |
| Wire at | | 11. | 49. | 20. |
| <i>Mercury</i> touched the same Wire at | | 11. | 49. | 46. |

| | | | | |
|---|---|-----|-----|-----|
| Sun's preceding Limb touched the | } | | | |
| Wire at | | 11. | 51. | 9. |
| <i>Mercury</i> touched the same Wire at | | 11. | 51. | 36. |

| | | | | |
|---|---|-----|----|-----|
| Sun's preceding Limb touched the | } | | | |
| Wire at | | 12. | 1. | 33. |
| <i>Mercury</i> touched the same Wire at | | 12. | 1. | 57. |

Mr. *Graham* got an Observation made by a Person in his Neighbourhood, by which it appears, that
at

at 11^h, 59', 50", *Mercury* preceded the Sun's Centre 42" in Right Ascension.

The Sky clearing up towards One o'Clock, the following Times were observed at Mr. *Graham's* House with great Accuracy.

| | h. | '. | ". |
|---|----|----|-----|
| Last interior Contact at | 1. | 0. | 42. |
| End, or <i>Mercury</i> just leaving the | 1. | 2. | 16. |
| Sun's Limb at | | | |

This last Observation agrees to a Second with the same Observation made by Dr. *Bevis* at Mr. *Sisson's* House in the *Strand*.

During the time of these Observations it blew a violent Gale of Wind, so that both Observers and Instruments were somewhat disturbed.

IV. *Eclipse of the Moon, Oct. 22. 1743. in the Morning, observed at Mr. Graham's House in Fleetstreet.*

Read Nov. 3.
1743.

THE Sky was mostly overcast with Clouds, so that the following Observations are the only ones that could be made with any Degree of Certainty.

| | h. | '. | ". |
|---|----|-----|----|
| Beginning of the Eclipse about . . . | 1. | 21. | 0. |
| The Shade touched <i>Copernicus</i> about . | 1. | 39. | 0. |
| touched <i>Plato</i> about . . . | 1. | 45. | 0. |
| touched <i>Tycho</i> about . . . | 1. | 51. | 0. |
| Total Immersion about | 2. | 17. | 0. |

V. *Part*